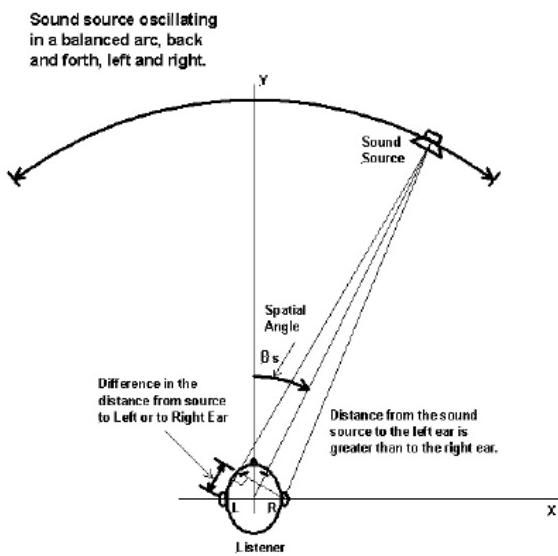


## Spatial Angle Modulation™ (SAM)

Spatial Angle Modulation or SAM, is a new audio support technology developed by The Monroe Institute within the context of contemporary scientific revelations about consciousness and neural microtubules which, based on a quantum mind hypothesis, supposes that consciousness consists of a series of discrete events or objective reductions (at  $\pm 40\text{Hz}$ ) of the quantum wave function within neural microtubules. We experience these as a continuous flow of consciousness, as do we individual frames in a movie-our consciousness appears continuous because the frames are happening in rapid succession. Once modern science uncovered what appears to be a neurological basis for personal experiences such as intuition, inspiration, revelation, transcendence, ESP, NDE, etc., we set about developing an advanced sound technology founded on this new understanding. The result of this effort is an innovation based on the established principles of acoustic resonance and fits well into our long history of audio guidance systems.



**SAM** mimics the sound that a listener would hear in open air if a sound source emitting a single frequency tone were moving in an arc. This is achieved through the use of a stereophonic field presentation using earphones or speakers. The spatial angle of the apparent sound source location as it moves rapidly around the listener produces a modulation or change in the tone-a tremolo effect-as it is perceived by the listener. It is this tremolo effect coupled with the size and orientation of the arc produced that give SAM its ability to influence regional brain activity and changes in states of consciousness. In practice, multiple signals

(SAM arcs at different frequencies and locales) may be presented simultaneously. In addition to controlling the nominal frequency of the sound source and the frequency at which the arc effect is produced, there are several other parameters that can be adjusted to control spatial aspects of the signal and its measurable effects on regional neural activity and consciousness. Another way to picture all this, as illustrated by the movie metaphor above, is that with the SAM quantum mind technology we will be able to alter the frame exposure rate for perceived local reality, the interlude between frames (when you are entangled with all space/time), and the exposure period for both perspectives. With this new technology, you may move across the "bridge to other reality systems" and integrate your experiences there, craft a genuinely meaningful life, realize your true Self and, thereby, benefit all of humankind. We believe that the objective evidence for SAM's effectiveness in facilitating enhanced states of awareness will be shown in ongoing studies of gamma synchrony as an electrophysiological correlate of consciousness.